Electrochemical Behavior of Titanium Carbide \$/078/60/005/06/08/030 B004/BC14 in Chloride Melt

dependence between the current yield for titaning on the current density D_a at 500°C. With D_a >0.1 a/cm² mainly TiCl41s formed, which is sublimated from the melt. Fig. 2 represents the polarization of the fifanium carbide anode at 530, 650, and 800° ($D_{\rm g} = 5.10^{-4}$ to 1 s/cm²) un the Accordinates log i, y (y = potential referred to a chlorine electrode). The authors discuss the low polarization at smell Day which thay ascribe to diffusion of titanium from the interior of the electrode toward the surface. The respective equations are written down. The decomposition of the carbide anode starts at potentials which, depending on D and temperature, are 0.6 - 1.4 v more negative than the potentials of chloring separation, and are accompanied by a polarization of 0.5 - 0.65 v. Fig. 3 shows the temperature dependence of the potential of the TiC-C electrode with respect to a Cl electrode. Moreover, the authors discuss the system ${
m Ti} \sim {
m C_{\rm g}}$ which below 900°C consists of the metallic a rhase with less than 1 per cent of C and the 5-carbide phase with #3 . 20 per cent of C. The emf of the cell Ti/TiCl₂, TiCl₃, LiCl, KCl_{melt}/Ti_{1+x}C between 425 and 725°C and its

Card 2/3

Electrochemical Behavior of Titanium Carbide \$/078/60/005/06/08/030 in Chloride Melt \$5.078/60/005/06/08/030

temperature dependence (Fig. 5) are examined for the tempositions of the 8 phase between TiC and Ti_{1.6}C. The cell used for this purpose is

schematically represented in Fig. 4. The changes in enthalpy, entropy, and the isobaric potential with charging composition within the range of the 8-phase of the system Ti - C were calculated from experimental results and data available in publications. There are 5 figures, 2 tables, and 11 references: 6 Soviet and 5 English.

SUBMITTED: December 27, 1958

Card 3/3

SMIRNOV, M.V.; SOKOLOVSKIY, Yu.S.; KRASNOV, Tu.N.

Equilibrium between cerium a d its bi- and trivalent ions in a fused eutectic mixture of lithium and potassium chlorides. Trudy Inst. elektrokhim. UFAN SSSR no.5:7-16 '64.

(MIRA 18:2)

SMIRNOV, M.V.; KRASNOV, Yu.N.; KHAFEMOV, F.P.

Reaction of lanthanum tichloride with a molten entectic mixture of lithium and potassium chlorides. Trudy Inst. elektrokhim. RFAN SSSR no.5:53-60 '64.

(MIRA 18:2)

L 10881-66 EWT(#)/ETC/EWG(#)/EWP(1)/T/EWP(t)/EWP(b) IJP(c) DS/JD/JW/JG/RM ACC NR. AT5028238 SOURCE CODE: UR/2631/65/000/006/0029/0037 AUTHOR: Smirnov, M. V.; Krasnov, Yu. N.; Khazemov, F. F.; Komarov, V. Ye. ORG: Institute of Electrochemistry, Ural Branch, Academy of Sciences SSSR (Akademiya nauk SSSR, Ural'skiy filial, Institut elektrokhimii) TITLE: Instability constants of fluoride complexes of lanthanum in the molten eutectic mixture LiCl-KCl SOURCE: An SSSR. Ural'skiy filial. Institut elektrokhimil. Trudy, no. 6, 1965. Elektrokhimiya rasplaviennykh solevykh i tverdykh elektrolitov (Electrochemistry of fused salts and solid electrolytes), 29-37 TOPIC TAGS: lanthanum compound, complex molecule, lithium fluoride, emf ABSTRACT: The emf's of the galvanic cells La | KCI - LICI+LaCI_+x LIF || KCI - LICI | CI_, C were measured at 600-800C, LiF being present in the electrolyte in amounts of 2.5, 5.0, 10, and 20 wt. %. The experimental data showed the existence of the following lanthanum complexes in the melt: LaF²⁺, LaF₂, and LaF₃. Expression for the temperature dependence of the instability constants of these complexes were obtained: Cord 1/3

L 10881-66

ACC NR: AT5028238

$$|\hat{g}|K_1 = \hat{g}|\frac{|L_0|^2 ||F^-|}{|L_4|^2 + ||F^-|} - 1.675 - \frac{900}{T};$$

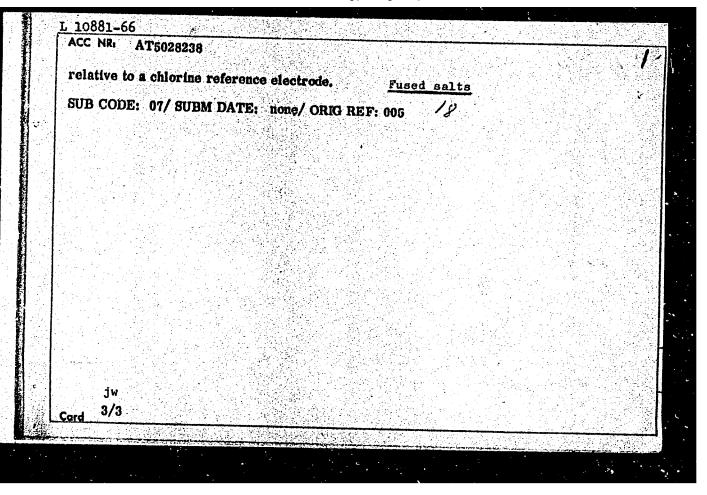
$$|\hat{g}|K_0 = \hat{g}|\frac{|L_0|^2 ||F^-|}{|L_4|^2 + ||F^-|} - 2.305 - \frac{1300}{T};$$

$$|\hat{g}|K_0 = \hat{g}|\frac{|L_0|^2 ||F^-|}{|L_4|^2 + ||F^-|} - 2.535 - \frac{1300}{T};$$
Expressions derived for their successive dissociation were:
$$|g|K' = |\hat{g}|\frac{|L_0|^2 ||F^-|}{|L_4|^2 + ||F^-|} = -0.230 - \frac{600}{T};$$

$$|g|K'' = |\hat{g}|\frac{|L_0|^2 ||F^-|}{|L_4|^2 + ||F^-|} = -0.732 - \frac{400}{T}.$$
An equation was obtained for the equilibrium potentials of lanthanum in mixed fluoride-chloride melts at
$$|\frac{|F|}{|L_0|} > 10:$$

$$|E_{L_0} = -3.721 + 5.19 \times 10^{-1} / 7 + 0.661 \times 10^{-4} T ||\hat{g}|\frac{|L_0|^2}{|F^-|^2} = V$$
Cord 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826130



SMIRNOV, M.V.; KRASNOV, Yu.N.; KHAZEMOV, F.F.; KOMAROV, W.Ye.

Instability constants of lanthamim fluoride complexes in a molten eutectic mixture LiCl - KCl. Trudy Inst. elektrokhim. UFAN SSSR no.6:29-37 *65. (MIRA 18:11)

L L157-66 EWT(m)/T/EWP(t)/ETI IJP(c) DS/WW/JD/JO/QD	
ACC NR: AT6022482 (A) SOURCE CODE: UR/0000/65/000/000/0254/0257	
AUTHOR: Smirnov, M. V.; Usov, P. M.; Krasnov, Yu. N.; Khazemova, T. F.	
ORG: Institute of Electrochemistry, UFAN SSSR (Institut elektrokhimii UFAN SSSR)	
TITIE: Reaction of metallic lanthanum with its trichloride	
SOURCE: Vsesoyuznoye soveshchaniye po fizicheskoy khimii rasplavlennykh soley. 2d, Kiev, 1963. Fizicheskaya khimiya rasplavlennykh soley (Physical chemistry of fused salts); trudy soveshchaniya. Moscow, Izd-vo Metallurgiya, 1965, 254-257.	
TOPIC TAGS: lanthanum, chlorida, electrolysis, TRICHLORIDE, CHEMICHL	
ABSTRACT: The emf method was used to study the reaction of Ia with IaCl3 and solutions of IaCl3 in the fused eutectic mixture IiCl-KCl in order to determine whether compounds of lanthanum of lower oxidation states exist, and if so, what part they play in the	
saturation with metallic Ia. The emf of galvanic concentration cells composed of two cells (liquid Ia in molten IaCl saturated with Ia, and Molammersed in molten IaCl containing 0.35-23/4 mole data attracted with Ia, and Molammersed in molten IaCl	
plotted from experimental points were similar to those which should be expected for electrolytes made up of a mixture of LaCl3 and LaCl2. It is concluded that metallic La	
Card 1/2	15.
	e.

rtially reduces IaCl ₃ to the difused mixtures with the trichlan 86 mole %. Upon solidificates into the metal and the tricked beduction of alkali metal dhlorid	ion of the fused salt midloride. By strengthen	extures, the dichlor ling the La3+-CI- hor	of no more
duction of alkali metal dhlorid egree that it can no longer be son, the electrolysis of Ia in formation of Ia ions of a lower igures. CODE: 07/ SUEM DATE: 23Aug6	reduced to the dichlori fused alkali metal chlor or oxidation state in the	ide by the metal	e to such

GNEVUSHEV, V.V., dotsent; KARASHUROV, Ye.S., kand. med. nauk; KRASNOV, Yu.P., assistent

Deep, spaced respiration as a factor in restoring the functional possibilities of external respiration following surgery for bronchial asthma. Uch. 2ap. Stavr. gos. med. inst. 12:258-259 '63. (MIRA 17:9)

l. Kafedra obshchey khirurgii (zav. prof. Yu.S., Gilevich) kafedra lechebnoy fizkul'tury i VK (zav. dotsent V.V. Gnevushev) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

Momogram for the conversion of acceleration vibration levels at applitudes of displacement. Sudostroenie 25 no.9:57-58 5 159. (Wibration (Marine engineering))

KRASNOVA, A. F., Cand Biol Sci -- (diss) "Biochemical changes in muscle and in blood during muscular activity of forceful character."

Leningrad, 1960. 19 pp; (State Order of Lenin and Order of Red Banner Inst of Physical Culture im P. F. Lesgaft); 350 copies; price not given; (KL, 17-60, 147)

KRASNOVA, A. F., LESHKEVICH, L. G., ROGOZKIN, V. A., CHAGOVETS, N. R., YAKOVLEV, N. N., (USSR).

The Significance of ATP content for Biochemical Processes after Exercises of Various Duration.

report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug. 1961.

KRASNOVA, A.F.; CHAGOVETS, N.R.

Biochemical changes in rat muscles during exercise of various duration and under conditions of supplementary inclusion of malt extract, maltose, and glucose into their food ration. Ukr. biokhim. zhur. 33 no.3:402-406 611 (MIRA 14:6)

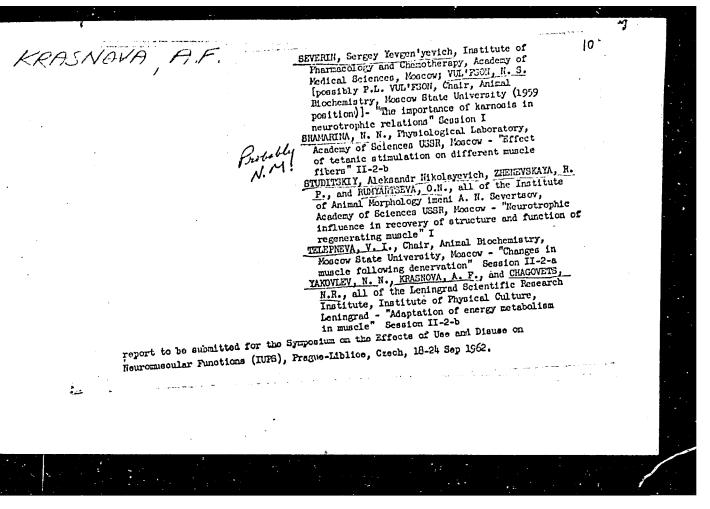
1. Sektor biokhimii Leningradskogo nauchno-issledovatel skogo instituta fizicheskoy ku 'tury.

(MAIT EXTRACTS) (EXERCISE) (MUSCLE)

YAKOVLEV, N.N.; KALEDIN, S.V.; KRASNOVA, A.F.; LESHKEVICH, L.G.; PUPOVA, N.K.; ROGOZKIN, V.A.; CHAGOVETS, N.R.; KOSTYGOVA, L.A.

Characteristics of physiological and chemical adaptation of the body to muscular activity in relation to the length of rest intervals between tasks during training. Fiziol. zhur. 47 no.6:752-757 Je '61. (MIRA 15:1)

1. From the Research Institute of Physical Culture, Leningrad. (EXERCISE) (REST) (METABOLISM)



KRASNOVA, A.F.; CHAGOVETS, N.R.

Effect of the use of malt extract on biochemical changes in the blood of athletes during work of different types. Vop. pit. 21 no.2:37-39 Mr-Ap 162. (MIRA 15:3)

1. Iz sektora biokhimii (zav. - prof. N.N. Yakovlev) Leningradskogo nauchno-issledovatel'skogo instituta fizicheskoy kul'tury.
(MALT-EXTRACTS)

(EXERCISE)

(BLCOD)

FARCULAY, N.H., MIMASNOVA, A.F.

Effect of muscular activity on the interaction of thiol groups of myosin with ademosine-triphospheric acid. Ukr.biokbim.zhur.

34 no.1:95-103 162. (MIRA 17:6)

1. Research institute of Physical Culture, Leningrad.

KRASNOVA, A.F.

Sarcoplasmic muscle proteins and serum proteins following a prolonged muscular activity and rest. Ukr. blokhim. zhur. 36 no.2:209-214, 164, (MIRA 17:11)

1. Section of Biochemistry of the Research Institute for Physical Culture, Leningrad.

KRASNOVA, A.F.

Influence of physical exercise on the blood serum protein fractions in elderly persons. Fiziol.zhur. 50 no.6:756-761 Je 164.

(MIRA 18:2)

1. Sektor bickhimii Nauchno-issledovatel skogo instituta fizicheskoy kul'tury, Leningrad.

KRASNOVA, A.F., YAKOVLEV, N.N.

Connection between the adenosine triphosphatase activity of myosin and the content of free thiol groups in it. Ukr. biokhim. zhur. 34 no.36428 434 162. (MIRA 18:5)

1. Nauchno-Issledovatel'skiy institut fizicheskoy kul'tury, Ieningrad.

KRASNOVA, A. G.

"The Effectiveness of Feeding Fure Fodder Irotein to Growing Pigs." Cand Agr Sci, Moscow Veterinary Acad, Min Higher Education USSR, Moscow, 1955. (EL, Mo 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions. (14)

POGODAYEV, K.I.; KRASNOVA, A.I.

Oxidation-reduction processes of metabolism in patients with schizophrenia during relieving diet therapy. Trudy 1-go MMI 26:315-323 63. (MIRA 17:2)

```
Effect of small doses of radioactive paosphorus on nitrogen metabolism, hemopoiesis, and the function of the cardiovascular system. Vest. rest. i rad. 33 no.3:75-76 My-Je '58 (MIRA 11:8)

(PHOSPHORUS, radioactive eff. on nitrogen metabo., hemopoietic system., & cardiovasc. funct. (Rus))

(HITHOGEN, metab. eff. of radiophosphorus (Rus))

(HEMOPOIETIC SYSTEM, eff. of radiations on radiophosphorus (Rus))

(CARDIOVASCULAR SYSTEM., eff. of radiations on radiophosphorus, on funct. (Rus))
```

IVANOVA, N.S.; KRASNOVA, A.I.

Effect of some medicinal substances on the indices of nitrogen metabolism in epilepsy. Vop. psikh. no.4:117-123 '60.

(MIRA 15:2)

(EPILEPSY) (NITROGEN METABOLISM) (DRUGS__PHYSIOLOGICAL EFFECT)

LOKTIONOVA, N.A.; Prinimali uchastiye: PANTYUSHKOVA, N.S.; POBOCHINA, T.V.; KRASNOVA, A.I.; FEL'DMAN, F.Z.; INOZHARSKAYA, L.A.; BOGUKHVALOVA, Z.V.; PRYTKOV, I.I.

Increasing the dimensional stability of Al9 alloy castings by heat treatment. Alium. splavy no.1:80-91 '63.

(MIRA 16:11)

KRASNOVA, A.I.

Effect of the blood sorum from schizophrenia patients on the carbohydrate metabolism in chick erythrocytes. Zhur. nevr. i psikh. 65 no.8:1206-1211 '65. (MIRA 18:8)

l. Jaboratoriya obshchey patofiziologii (zavednynshchiy M.Ye. Vartanyan) Instituta psikhiatrii AMN SSSR, Moskva.

VISHNYAK Yu.I.; KRASNOVA, A.I.

Polarographic study of the blood serum of schizophronia patients.
Zhur. nevr. i psikh. 65 no.2:251-255 165.

1. Institut psikhiatrii AMN SSSR, Moskva.

(MIRA 18:9)

VIROGRAD, M.I.; KISELEVA, S.A.; SMIRHOVA, A.V.; KRASNOVA, A.K.; FAYVILEVICH, G.A.; PAYPEROVA, I.A.; SMIRHOV, Yu.I.

"Metallography laboratory" by E.V.Panchenko and others. Reviewed by M.I.Vinograd and others. Zav.lab. 26 no.1:127-128 '60.

(Metallography)

VINOGRAD, M.I.; KISELEVA, S.A.; KRASHOVA, A.K.

Accuracy of a quantitative evaluation of the contamination of steel by inclusions. Zav.lab. 26 no.9:1086-1088 '60.

(MIRA 13:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P.Bardina.
(Steel--Testing)

3

5/028/61/000/011/003/004 D221/D301

AUTHORS:

KRASNOVA, A.K.

Vinograd, M.I., Kiseleva, S.A., Akimova, Ye. P., Apolovnikova, L.G., Shevchenko, L.N., Kedrina, A.M., and Krasmova, A.K.

TITLE:

The metallographic method of determining non-metallic

inclusions

Standartizatsiya, no. 11, 1961, 27-33 PERIODICAL:

TEXT: The draft standard: "Steel - The metallographic method of determining inclusions" was prepared by the Tsentral'nyy nauchno-issledovatel'-skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy) and the Ukrainakiy nauchno-insledovatel'skiy trub-nyy institut (Ukrainian Scientific Research Institute of Pipes). It includes a scale, covers non-metallic inclusions, and envisages random sampling when the disposition of material is unknown, or from three points along the height of ingots. The project recommends discussion on the quantity of specimens which would ensure the required accuracy.

Card 1/2

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5/028/61/000/011/003/004 0221/0301

The metallographic ...

The suggested scale for evaluating non-metallic inclusions distinguishes three groups: Oxides, globular and sulphides. The scale division to based on the area taken up by the inclusions in one field of viewing, and which increases in a geometrical progression of 2 when passing from one mark to another. In 1959, the UkrWITI devoloped a special scale for streaky nitride inclusions of titanium in steel rolled sections. The project prescribes a 90 - 110 times magnification. The area taken up by inclusions of mark 3 is equal to that of the same mark scale of (GOST) 80-160. There are tabulated areas of various inclusions and their classification necessitates the separation of silicates into an individual group. They form grently deformed, plastically deformed and nondeformed inclusions. The project assumes the average mark from the maxis ma of specimen evaluations of inclusions as a criterion of casting. This is confirmed by statistical analysis. The errors in determining the average mark, and the method of their calculation for some types of inclusions are defined by the project of the standard. There are 2 figures, 5 tables and 9 Sovietablec references.

Card 2/2

SMIRNOVA, A.V.; KRASNOVA, A.K.; VOLKOVA, L.A.; MAKAROVA, V.N.

Methods for the exposure and determination of the grain size of austenite in steel. Standartizatsiia 27 no.5:23-28 My 163. (MIRA 16:6)

(Austenite-Metallography)

KRASNOVA, A.K.; SMIRNOVA, A.V.

Reagent for detecting austenite grains. Zav. lab. 29 no.10: 1204-1205 '63. (MIRA 16:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina.

KRASNOVA, A.K.; SMIRNOVA, A.V.; VOLKOVA, L.A.

Methods of revealing the actual austenite grain in steel. Sbor. trud. TSNIICHM no.32:51-55 '63. (MIRA 16:12)

SMIRNOVA, A. V.; KRASNOVA, A. K.

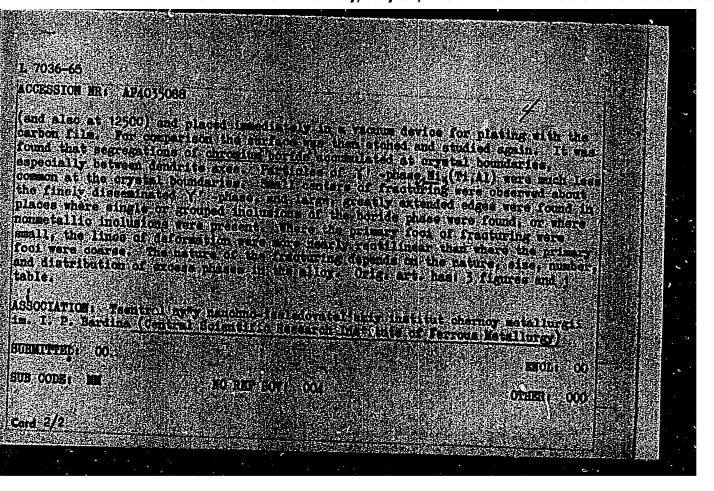
"Elektronenfraktographie der Proben von gegossener Legierung El-437 B, die bei verschiedenen Temperaturen zerstort sind."

report submitted for 3rd European Regional Conf, Electron Microscopy, Prague, 26 Aug-3 Sep 64.

L. 7036-65 ENT (m)/ENP(q)/ENP(b) PROS AFFE/AD(m)-2/SSD/RABA(t) MAW/NO/EN/35 S.

AUTHORS: Saltmore, A. V. 1; Aramore, A. E. 1; Oromove, G. E. 1 Vincered, E. 2.

TIPLE: Electron microscopic investanting of gracks in quatiality Electron solutions of the salt of gracks in quatiality Electron solutions of the salt of gracks in quatiality Electron solutions of the salt of gracks alloy Electron solutions and the salt of microscopic investanting of gracks in quatiality Electron solutions and solutions and solutions of the salt of microscopic investants and solutions of the fracture surface, fine section, furnishing a single-single circum print of lin, was described in a previous papers by A. V. Saltmove and U. A. Saltmove in available plant of the salt in the salt of the



SMIRHOVA, A.V.; KRASNOVA, A.K.

Standardization of the methods for the determination of grain size in austenite steels. Standartizatsiia 28 no.8:55-56 Ag *64. (MIRA 17:11)

1.1578-65 ENT(a)/CNA(a)/T/CEP(c)/CNP(b) D

ADDRESSION MR: AV[a] Chambre: A.F.

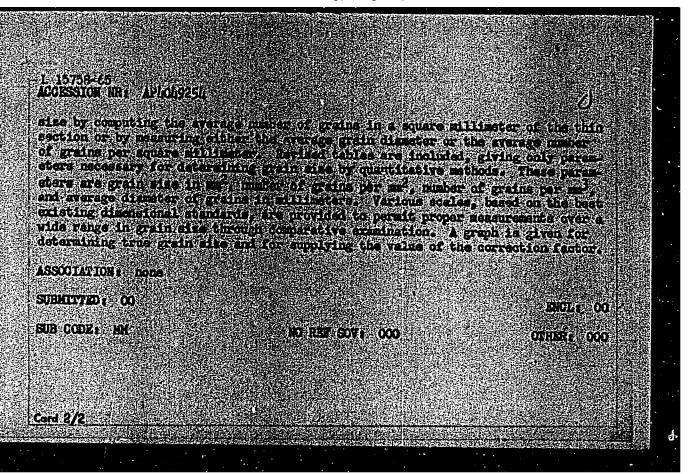
FITLE: Standardisation of Wethode for determining grain size in sustential steels

SOURCE: Standardisation of Wethode for determining grain size in sustential steels

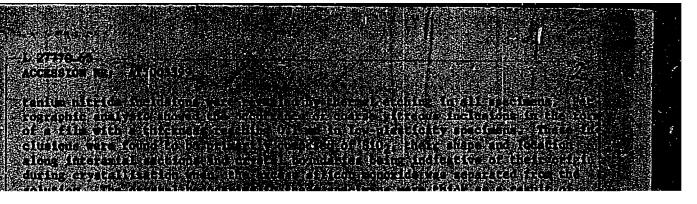
SOURCE: Standardisative: no. 8; 180; 55-56

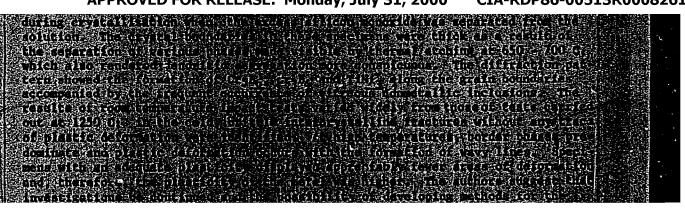
TOPIC TAINS: steel

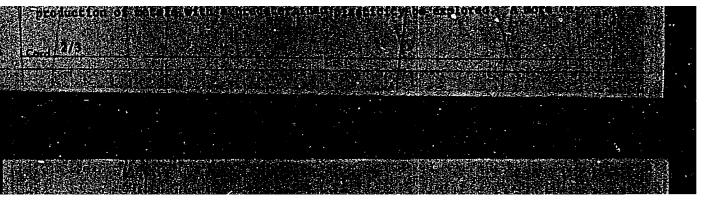
INSTRUCT: Takes of using the spantary doed 5039-51 (Steel: the method of determining grain size in the laborated large manning stain size in the standard determining grain size in the standard large in the standard large in the standard large methods of investigation and determination of grain size) to replace (OSS 5039-1). The new standard results from a study of extensive literature from mations all over the world as will as from a study of extensive literature from mations all over the world as will as from a study of extensive literature from mations all over the world as will as from a study of extensive literature from mations all over the world as will as from a study of extensive literature from the central Metallunghoal Institutes. It provides out the metallunghoal metallunghoal institutes. It provides for the new attendard standard delice or qualitative evaluation of grain sections is proposed. The new standard delice or qualitative evaluation of grain cord 1/2

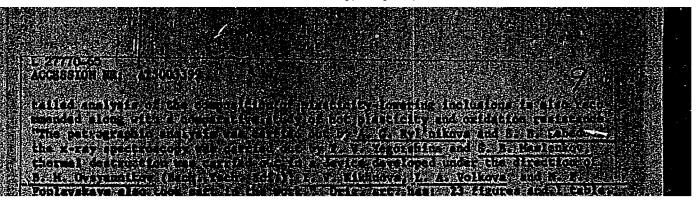




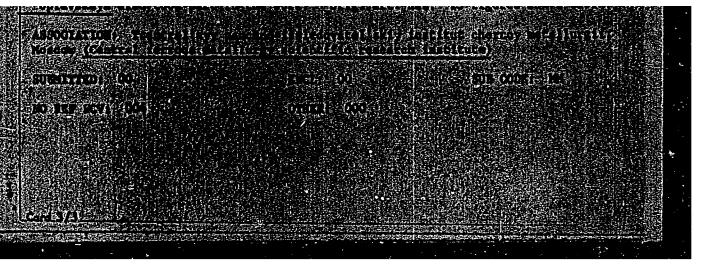




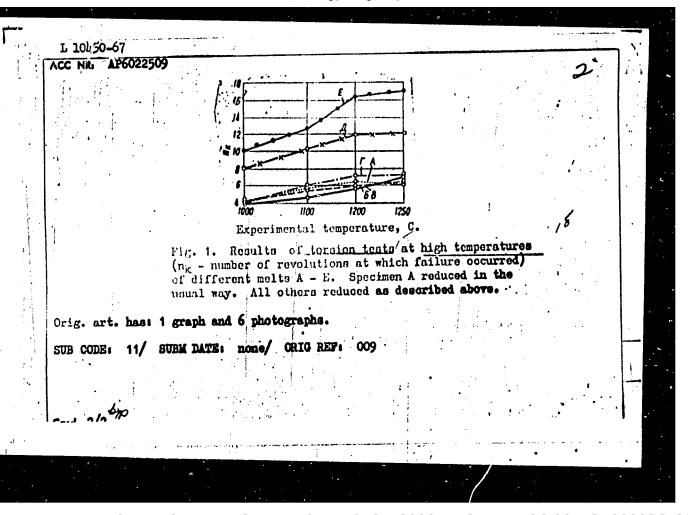




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, , , , , , , , , , , , , , , , , , ,	I, 10/150-67 EVT(m)/EWT(w)/EWP(t)/ETI LIP(c) JD/JO SOURCE CODE: UR/0133/66/000/004/0353/0358	41
ا	AUTHORS: Vinograd, M. I.; Gnuchev, S. M.; Grozova, G. P.; Sairzova, A. V.; Ryl'nikova, A. G.; Osnovin, V. A.; Krasnova, A. K.; Likhnova, I. V.; Tegorshina, T. V.;	
1	ORG: none TITLE: Nonmetallic inclusions in melts of steel OBKh20N10G6 exhibiting different hot technological plasticity	
: •	SOURCE: Stal', no. 4, 1966, 355-358 TOPIC TAGS: alloy steel, metallurgic research, aluminum, cerium / ONKh2ON1006 alloy	
	ABSTRACT: The effect of aluminum and rare earth elements (mainly cerium) on the technological plasticity of steel Oekh2ON10G6 was investigated. The investigation supplements the results of V. A. Osnovin and S. M. Gnuchev (Byulleten' TsIINChM, 1964, No. 6). The microstructure and twisting strength of the specimens was determined as a function of the temperature and nature of the reducing agent (see Fig. 1). It was function of the temperature and contact of the reducing agent (see Fig. 1).	
	found that addition of 1.5-2.0 kg ton of the latter basis of Ce) to steel 08Kh20M10G6 leads to a considerable increase in the high temperature plasticity of the latter. S. B. Lebedeva, I. A. Prokof'yeva, and L. I. Volkova participated in the experimental work.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Card 1/2	1



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YEGOROV, M.N., prof., MISHCHENKO, Ye.D., SYCHEVA, A.N., KRASNOVA, A.M.

Chenotherapy of diabetes mellitus and problems of dietotherapy.
Terap. arkh. 30 no.7:18-25 Jl'58 (MIRA 11:8)

1. Is kliniki lechebnogo pitaniya (mav. - prof. F.K. Men'shikov)
Instituta pitaniya AMN SSSR.

(ANTIDIABETICS, therapeutic use.

(Rus))

(DIETS, in var. dis.

diabetes mellitus (Rus))

(DIABETES MELLITUS, therapy
diets (Rus))
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KRASNOVA, A. M.

"Relationship Between the Changes in the External Appearance of the Eggs of Ixodid Ticks and the Various Stages of their Development in the Egg Membranes."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Saratov Zooveterinary Institute.

KRASNOVA, A.M.

Dynamics of bone marrow hematopoiesis in patients with diabetes mellitus during treatment with preparations with hypoglycemic action. Probl.gemat.i perel.krovi no.8:33-39 161.

(MIRA 14:0)

1. Iz kliniki lechebnogo pitaniya (zav. - prof. F.K. Men'shikov)
Instituta pitaniya AMN SSSR.

(DIABETES) (HEMOPOIETIC SYSTEM) (BLOOD SUGAR)

KRASNOVA, A.M.

Absorption of some micro- and macroelements in patients suffering from chronic enterocolitis. Terap.arkh. 34 no.3:73-81 62.

(MIRA 15:3)

1. Iz kafedry lechebnogo pitaniya (zav. - prof. F.K. Men'shikov)
TSentral'nogo instituta usovershenstvovaniya vrachey.
(TRACE ELEMENTS IN THE BODY) (COLITIS)

KRASNOVA, A.M., atarshiy laborant

Forecasting the time of the occurence of ixodid larvae in nature based on external characteristics of eggs changing in the process of development. Trudy SZVI 11:271-278 162.

(MIRA 16:7)

(Ticks) (Insects-Eggs)

KRASNOVA. A.M., starshiy laborant

Comparative study on the interrelationship between changes in the external characteristics and various stages of the embryonic development of two species of ixodid ticks. Trudy SZVI 1.1:279-286 '62. (MIRA 16:7)

(Ticks) (Insects-Development)

KRASNOVA, A.P.; PARSHINA, E.A.; SUKHANOVSKIY, S.I.; CHUDAKOV, M.I.

Preparation of oxalic acid from hydrolytic lignim. Zhur.prikl.khim.
30 no.5:802-806 My '57.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.

(Oxalic acid)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA

CIA-RDP86-00513R000826130

KRASHOVA, A.P.; SUKHANOVSKIY, S.I.; CHUDAKOV, M.I.

Nature of hydrolytic lignin, Zhur.prikl.khim. 30 no.12:1827-1831

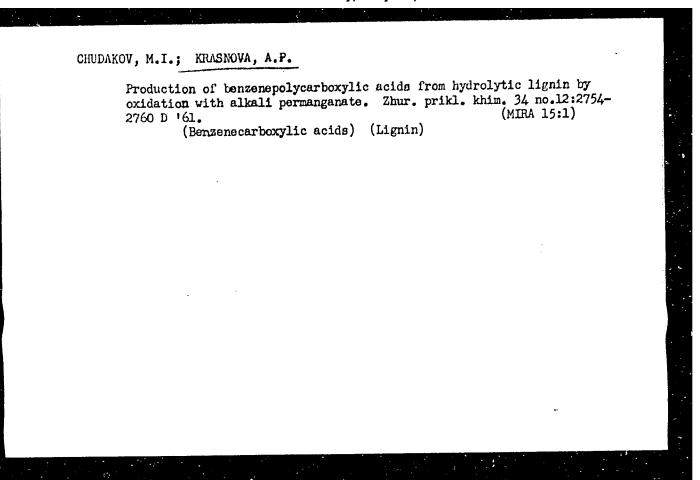
D '57.

(Lignin)

OKUN', M.G.; SUKHAROVSKIY, S.I.; CHUDAKOV, M.I.; KRASMOVA, A.P.

Rapid method for determining lignin. Gidroliz i lesokhim. prom. 12 no.5:10-11 '59. (MIRA 12:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovey promyshlennosti. (Lignin)



CHUDAKOV, M.I.; KRASNOVA, A.P.

Production of benzenepolycarboxylic acids from hydrolytic lignin by oxidation with nitric acid. Zhur. prikl. khim. 34 no. 12:2760-2764 D '61. (MIRA 15:1)

(Benzenecarboxylic acids) (Lignin)

KRASNOVA, A.V.

Surgical diseases of children in Leningrad. Zdrav.Ros.Fed. 7 no.4:21-26 Ap '63. (MIRA 16:4)

1. Iz kafedry organizatsii zdravookhraneniya (zav. zasluzhennyy deyatel' nauki prof. Yu.A.Dobrovol'skiy, nauchnyy
rukovoditel' raboty - prof. B.M.Khromov) Leningradskogo ordena
Lenina instituta usovershenstvovaniya vrachey imeni S.M.
Kirova (rektor - dotsent S.N.Polikarpov).

(LENINGRAD - CHILDREN - DISEASES)
(LENINGRAD - CHILDREN - SURGERY)

KRADNOVI., A. Ye. Caut. Tech. Sci.

Diosertation: "Vitaminization of Confectionary Products and Optimum Conditions for Their Enrichment with Vitemin C." Instof Mational Economy Stand G. V. Plekhanov, 18 Apr 47.

S0: Vechernyaya Noskyu, Apr, 1947 (Project #17836)

FAL'KOVSKIY, G.E.; KRASNOVA, A.Ye.

Comparative evaluation of vairous methods of placing a circular vascular suture. Eksper.khir, 4 no.5:12-16 S-0 159. (MIRA 13:1)

1. Iz kafedry topograficheskoy anatomii i operativnoy khirurgii (zav. - prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(BLOOD VESSELS, surg.)

KRASNOVA, B. I. Cand Chem Sci -- (diss) "Study of the stability of supersaturated salt solutions." Kiev, 1957. 13 pp 22 cm. (Inst of Hydrobiology, Acad Sci UkSSR), 100 copies (KL, 24-57, 116)

-15-

SKVORTSOV, V.V.; EYDINOVA, G.C.; LUPINA, M.I.; YAKUBOVA, G.R.; SINAY, A.Ya.; GOLUBEVA, T.V.; MIKHAYLOVA, A.M.; KRASNOVA, F.M.; KOBETSOVA, A.D.

Epidemiology of intestinal infections in children's institutions. Zhur, mikrobiol. apid. i immun. 32 no.6:47-51 Je '61. (MIM 15:5)

1. Iz II Moskovskogo meditšinskogo instituta imeni Pirogova i sanitarno-epidemiologicheskoy stantsii Leninskogo rayona Moskvy. (INTESTINES--DISEASES)

EWT(m)/EWP(1)/T/EWP(t)/EWP(b)/EWA(c) L 2791-66 ACCESSION NR: AP5022246 UR/0363/65/001/007/1016/1020 546.289:548.55 AUTHOR: Dorfman, V. F.; Belokon', M. S.; Krasnova, G. F.; Tolkacheva, G. N. TITLE: Bffect of growth conditions on certain properties of epitaxial germanium layers (SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1016-1020 TOPIC TAGS: epitaxial growing, germanium crystal dislocation ABSTRACT: This paper deals primarily with the morphological and structural characteristics of epitaxial germanium layers grown by the iodide process. The dislocation density and its distribution over the thickness of the layers are determined by etching with 8 pts. K3 [Fe(CN)6] + 12 pts. KOH + 100 pts. H20. As the temperature of the growing process rises, the role of homogeneous disproportionation of GeI2 in the gas phase increases. As a result, the structure of the epitaxial layers changes, and in particular, stacking faults appear. A hypothesis is advanced concerning the general nature of stacking faults and trigonal growth pyramids on the (111) plane. A mechanism accounting for both of these formations 1/2 Card

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s proposed. The morph nternal structure. Sm ensity and increasing authors thank K. A. Bol hroughout the course of assistance in the exper	ooth deposits are of the uniformity of the shakov and I. P. K of the study, A.M. A iments, and V. G. K	btained by decre heir distribution <u>islyakov</u> for the <u>nisimova</u> and <u>T.</u> holodova for tak	asing the dis n in the laye ir helpful co B. Pleskachev	o their location rs. "The mments a for
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UDMITTED: 18Feb65			DE: SS, IC	
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KORYAGIN, G.A.; KRASNOLA, G.S.; PASYNKOVA, Z.T.; MAKHOV, D.S.

Communication workers discuss their work practices. Avtom., telem. i sviaz' 9 no.3:28 Mr '65. (MIRA 18:11)

1. Rabotniki Novosibirskoy distantsii Zapadno-Sibirskoy dorogi.

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.

Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9078

Author : Shvartszayd, M.S., and Krasnova, G.V.

Inst

KRASNOVA, GV

Title : High-Strength Concrete from Finely Ground

Cements.

Orig Pub : Beton i zhelezobeton, 1956, No 8, 281-284

Abstract: The effect of finely ground sand, vibrationsized cement, and of the efficient compacting

of the concrete mixture on the strength of autoclave-hardened concretes containing no large aggregates has been investigated. The concrete was prepared from grade 400 portland

cement produced at the Belgorod plant,

Card 1/3

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9078

containing 57.8% C₃S and 3.4% C₃A (S = 2100 cm²/gm /TN: the latter symbol appears to stand for specific surface area/). Cement charges of 300,450, and 600 kg/m³ were used. A 4-8-3 schedule was used in the autoclaving of the concrete. The cement-to-sand (S=4200 cm²/gm) ratio used varied from 7:1 to 1:1. The crushing strength of finely ground autoclave-hardened concretes is 1.5-3 times greater than that of normally hardened concrete. The addition of finely ground sand to autoclave-hardened cement concretes makes it possible to obtain concretes of strengths equal to that of concrete prepared from "pure" cement. When a

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USSR/Chemical Technology - Chemical Products and I-10

Their Applications - Silicates. Glass.

Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 9078

mixed cement charge of 300-500 kg/m³ is used, the optimum amount of ground sand is 33-40%. The utilization of finely ground cements (S=3700-4000 cm²/gm) leads to an increase of 150-200% in the strength of the concrete relative concretes prepared from cement ground to the usual fineness. The substitution of a part of the finely ground cement with finely ground sand permits an increase in the strength of the concrete. The optimumum amount of ground sand represents 25-40% of the weight of the mixed cement. When a cement charge of 150-450 kg/m³ is used, fine-grained concretes having a crushing strength of 300-900 kg/cm² (5 x 5 x 5 cm specimens) are obtained.

Card 3/3

KRASNOVA, G. V., Cand Tech Sci -- (diss) "Study of certain problems of technology and properties of high-strength fine-grained concretes of autoclave hardening." Mos, 1958. 15 pp (Acad of Construction and Architecture USSR, Sci Res Inst of New Construction Materials, Finishing, and Cutfitting of Buildings, Laboratory of Autoclave Silicate Materials), 200 copies (KL, 17-58, 108)

-41-

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826130

AUTHORS:

Sokolova, Ye. B. Krasnova, U. V.

SOV/156-58-2-32/48

Zhuravleva, T. A.

TITLE:

The Synthesis of Mono-Alkyl-Cyclohexanes of a C15 - C18 Com-

position With an Increased Density (Sintez monoalkiltsiklogeksanov sostava c_{15} - c_{18} s povyshennoy plotnostłyu)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 2, pp. 330 - 334 (USSR)

ABSTRACT:

A hydrocarbon fuel with a maximum calorific power per unit volume and with good combustion characteristics can be obtained only by a rational component selection of components, taking into account the composition and the structure.

The paraffin- and naphthene hydrocarbons the densities of which are increased owing to the branched structure, are most interesting in this connection. Among the first the isomers with quadrivalent carbon atoms are most interesting. The increase of the number of lateral chains and the more compact

position of the chains in the polysubstituted cyclohexane homologues or the presence of a carbon atom in the lateral chain of the monosubstituted alkyl-cyclohexanes lead to a

Card 1/4

The Synthesis of Mono-Alkyl-Cyclohexanes of a C_{15} - C_{18} SOV/156-58-2-32/48 Composition With an Increased Density

considerable density even at a constant molecular weight. It was the purpose of this paper to produce a number of monosubstituted cyclohexane homologues the carbon structure of which contains 1 or 2 carbon atoms; furthermore the evaluation of the influence of a branched structure on the density, After presenting a detailed experimental part the authors draw the following final conclusions ; 1) 4 new mono alkyl-substituted benzene homologues were synthetized and characterized according to their main physical and chemical properties; from these 4 new mono-alkyl-substituted cyclohexane homologues were produced by catalytic hydration, containing 1 or 2 carbon atoms in the lateral chain. 5 new tertiary alcohols were produced for the first time as intermediates in the synthesis. The mentioned final products are the following: 2,4-dimethyl-1-4-cyclohexyl octane, 2,6-dimethyl-4-propyl-4-cyclohexyl heptane, 2,2,4,6-tetramethyl-4-cyclohexyl heptane, and 2,2,5-trimethyl-3-cyclohexyl hexane. The density of these cyclanes amounts to from 0,8392 to 0,8450. This surpasses considerably the density

Card 2/4

The Synthesis of Mono-Alkyl-Cyclohexanes of a C₁₅-C₁₈ SOV/156-58-2-32/48 Composition With an Increased Density

of the mono-alkyl-substituted homologues of the cyclohexane of the same composition with a normal or only to a small extent branched lateral chain. The density increase in consequence of the structure ramification amounts to approximately 3% for the synthetized hydrocarbons. The increase of the calorific value per unit volume connected with it is of considerable practical interest. There are 1 figure and 6 references, 2 of which are Soviet.

ASSOCIATION: Kafedra tekhnologii iskusstvennogo zhidkogo topliva i gazov

Moskovskogo khimiko-tekhnologicheskogo instituta im. D.I. Mendeleyeva (Chair of Technology of Artificial Liquid Fuels

and Cases of the Moscow Institute of Chemical Technology

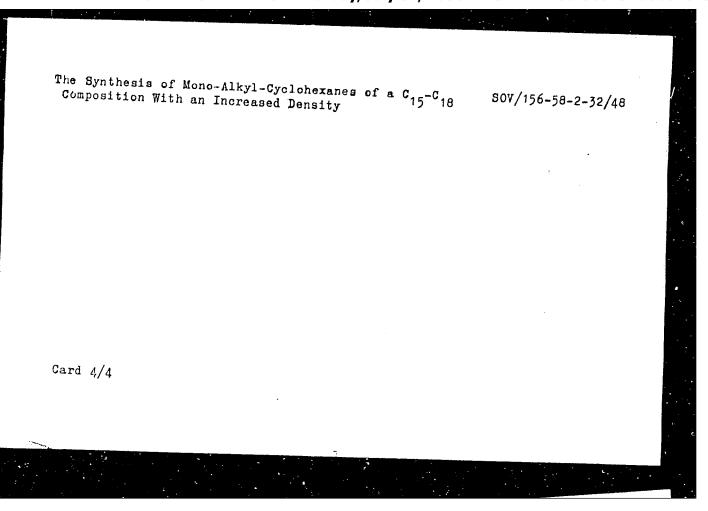
imeni D.I.Mendeleyev)

SUBMITTED: October 3, 1957

Card 3/4

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826130



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s/032/60/026/009/002/018 B015/B058

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AUTHORS:

Datskevich, A. A., Zhigacheva, L. P., Krasnova, G. Lapitskaya, M. D., Latukhova, A. G., Moshinskaya, M. B.

Determination of Small Amounts of Hydrogen in Helium

TITLE:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 9,

PERIODICAL: pp. 1082 - 1083

TEXT: A method of determining hydrogen in helium according to the adsorption development chromatography was elaborated. The experiments were made on a XT-2M (KhT-2M) chromatographic instrument with a developer based on the thermochemical principle (Ref. 1). The working conditions were selected in such a way that a detector could determine both components by two characteristics, i.e., helium by the thermal conductivity and hydrogen by the heat of combustion. A 6 m long metallic separation column, filled with CKT (SKT) coal and with air as carrier gas, was used for analyses at room temperature. The sensitivity to hydrogen amounted to 0.5% at a relative accuracy of 5%. A 10 m long polyvinyl chloride tube was used for analyses at low temperatures and work was carried out

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Determination of Small Amounts of Hydrogen S/032/60/026/009/002/018 in Helium S/032/60/026/009/002/018

at - 35°C, making it possible to obtain a better separation and to use larger sample quantities, so that the sensitivity rose to 0.05%. A comparison of the measuring results on the KhT-2M instrument with those obtained at a combustion over copper oxide is tabulated. There are 2 figures, 1 table, and 1 Soviet reference.

ASSOCIATION: Konstruktorskoye byuro avtomatiki i telemekhaniki (Design Office for Automation and Telemechanics).

Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut (All-Union Petroleum Scientific Research Institute of Geological Survey). Moskovskiy zavod szhizheniya prirodnogo gaza (Moscow Plant for Liquefying Natural Gas)

Card 2/2

POPOV, N.A., zasl. deyatel' nauki i tekhniki, prof.: KRASNOVA. G.V., kand. tekhn. nauk; VINOGRADOV, B.N., inzh.; ROGACHEVA, O.I., inzh.; GLEZAROVA, I.L., red.; BOROVNEV, N.K., tekhn. red.

[Lightwight autoclave concretes with porous filters] Legkie avtoklavnye betony na poristykh zapolniteliakh. Moskva, Gosstroiizdat, 1963. 92 p. (MIRA 16:7)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov). (Concrete)

ACC	08121-67	0/0205/0208
AUT	HOR: Khatalakh, R. F.; Krasnova, I. A.; Dubrovina, I. N.; N.; Kosheleva, G. F.	zimina,
	LE: EP404 and EP454 economical heat-resistant alloys	131
zha	IRCE: AN SSSR. Institut metallurgii. Svoystva i primeneniy roprochnykh splavov (Properties and application of heat reloys). Moscow, Izd-vo Nauka, 1966, 205-208	sistant
± 11 7	PIC TAGS: iron nickel alloy, aluminum containing alloy, his ce alloy, molybdenum containing alloy, tungsten containing comium containing alloy/EP404 alloy, EP454 alloy	gh tempera- alloy,
ant	STRACT: Two new EP404 and EP454 nickel-iron base wrought he alloys have been developed as less expensive substitutes a EI827 nickel-base alloys intended for short-time operation stresses. The new alloys are available in the form of for rolled stock. Both can be hot worked in the 950-12000 r	n under orgings ange com-
hig and par	red with the 1050-1150C range for EI827 and EI867 alloys. eatment of EP404 and EP454 alloys includes annealing for 6 75-1200 and 1150-1175C, respectively, followed by air coo	mr an

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ACC NR: AT6034457

7

aging at 750-8000 for 10 hr. The heat-treated alloys have high strength and ductility in the 20-800C range comparable to those of E1827 and E1867 alloys. EP404 alloy has a high yield strength (80 kg/mm^2) at 20-800C and EP454 alloy has an impact strength of about in the 930-1200C range. Both alloys soften $12-19 \text{ kg} \cdot \text{m/cm}^2$ appreciably at temperatures above 800C. The rupture strength of EP404 and EP454 alloys at 7500 was practically the same as that of EI867 and EI827 alloys. The 100-hr rupture strength of EP454 alloy at 8500 was 20 kg/mm² and the 200-hr rupture strength at 800C was 25 kg/mm². EP404 alloy has higher characteristics of heat resistance [unspecified] than EP454 alloy. Prolonged aging of EP404 alloy at 800C resulted in the precipitation of the <u>brittle</u> ε-phase (an Fe₇W₆-type phase containing about, wt%, 14 Ni, 10 Cr, 11 Fe, 37 Mo, 28 W). This can be avoided by annealing at 1000C and subsequent aging. Stressless aging of EP404 alloy at 7500 brought about no changes in the structure or hardness. However, aging under a stress of 50 kg/mm² for 0.5-10 hr caused intensive precipitation of the Y'-phase (Ni3Al) with no c-phase precipitation Aging of EP454 alloy at 750 and 800C with or without stress changed only slightly the alloy hardness. No structural change was observed in EP404 and EP454 alloys with aging at 7500 for 100 hr, indicating the structure stability of the alloys. V. V. Topilin, T. G. Pegova, V. M. Romashov, A. P. Boyarinov, V. K. Tsvetkova and N. D. Orekhov participated

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BORZOV, M.V.; KOSSOVSKAYA, O.Ya.; KRASNOVA, I.M.

Occupational dermatitic caused by lacquer in workers of a plant manufacturing cinematographic apparatus. Vest. derm. 1 ven. 38 no.7240-41 Jl 164. (MIRA 18:4)

1. Zafedra kozhnykh i venericheskikh beleznoy (zav. - prof. M.V. Borzev) Odesskogo meditsinskogo instituta imeni Pirogova.

AKIMOV, I.G.; KRASHOVA, I.N.

Use of skim milk hydrolysate as a nutrient medium for streptococcus. Iab.delo 6 no.2:47-50 Mr-Ap '60. (MIRA 13:6)

1. Kafedra mikrobiologii (zav. - dotsent I.G. Akimov) Ivanovskogo meditsinskogo instituta (dir. - dotsent Ya.M. Romanov).

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

(STREPTOCOCCUS) (MILK AS FREDING STUFF)

KRASNOVA, I.N.

Studies on antibiotic resistance of pathogenic serotypes of Escherichia coli. Antibiotiki 6 no.2:158-160 F '61. (MIRA 14:5)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey. (ESCHERICHIA COLI) (AMTIBIOTICE)

KRASNOVA, I.N.

Comparative studies on the effectiveness of polymyxin and antibiotics of the neomycin series in experimental infections caused by pathogenic serotypes of Escherichia coli. Antibiotiki 6 no.51406-409 My '61.

(MIRA 14:7)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey. (ANTIBIOTICS) (ESCHERICHIA COLI)

GLADKOVA, N.V.; DEMENOVA, A.D.; KRASHOVA, I.H.

Treatment of dysentery and coli enteritis with a new antibiotic polymyxin M. Pediatriia no.2:65-69 '62. (MIRA 15:3)

1.Iz 4-y Detakoy infektsionnoy gorodskoy bolinitsy (glavnyy vrach Z.I. Sleto) Leningradskogo rayona i kafedry mikrebielegii (zav. - chlen-korrespondent AFN SSSR prof. Z.V. Yermoliyeva) TSentralinogo instituta usovershenstvovaniya vrachey.

(ESCHERICHIA COLI) (DYSENTERY) (POLYCYXIN)

YERMOL'YEVA, Z.V.; KRASNOVA, I.N.; GLADKOVA, N.V.; SEMENOVA, A.D.

Study of the effectiveness of polymyxin M in dysentery in an experiment and in the clinic. Antibiotiki 6 no.11:964-968 N '61. (MIRA 15:3)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMI SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey, detakaya bol'nitsa No.4 (glavnyy vrach Z.I. Sleto)
Leningradskogo rayona Moskvy.

(DYSENTERY) (POLYMXIN)

BRAUDE, A.I.; KRASHOVA, I.N.

Action of polymixin M in experimental dysenteric intoxication.

Antibiotiki 7 no.10:916-919 0.62 (MIRA 16:12)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovershenstvo-vaniya vrachey.

SHTEYNBERG, G.B.; KRASNOVA, I.N.; ZISERMAN, V.Ye.

Results of sanitary-hygienic and microb. logical inspection of antibiotic industries. Antibiotiki 9 no.1:34-38 Ja 164.

(MIRA 18:3)

1. Kafedra promyshlennoy gigiyeny (ispolnyayushchiy obyazannosti zaveduyushchego Z.A.Volkova), kafedra mikrobiologii (zav. - deystvitel'nyy chlen AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey, Mikologicheskiy dispanser, Moskva.

KRASNOVA, I.Ye.; ZEBREVA, A.I.

Determination of the solubility of manganese in mercury by means of amalgam polarography with storage. Elektrokhimiia 2 no.1:96-99 Ja 166. (MIRA 19:1)

1. Kazakhskiy gosudarstvennyy universitet imeni S.M. Kirova, Alma-Ata. Sutmitted November 11, 1964.

KRASNOVA, I.Ye.; ZEBREVA, A.I.

Diffusion into a capillary during aging of smalgams in amalgam polarography with storage. Flektrokhimiia 1 no.11.1356-1359 N '65. (MIRA 18:11)

1. Kazakhakiy gosudaratvennyy universitet imeni Kirova.

KHASHOVA, I.Ye.; ZEBHEVA, A.I.

Anodic currents of oxidation of manganese analgams. Zhur. fiz. khim. 38 no.6:1675-1676 Je :64.

(MINA 18:3)

1. Kazakhskiy gosudars: Vannyy universitet.

Example VA, T.Ve.; DEPROVA, D.I., No., Wallet I.V., example to the following and all follows months in the micket in memory by the verted of analysm polarography with atoraga. Bokin AV NO. 110 no. Relieved by Mar. (170)

1. Akademiya AV Statishakay No. 1007 Collegely.e

KRASNOVA, I.Ye.; VAL'KO, A.V.

Stationary moreury electrode for determining the microquantity of a metal. Zav. lab. 29 no.9:1148 '63. (MIRA 17:1)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova.

3.9000

90396 SOV/169-59-4-3742

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 4, p 81 (USSR)

AUTHOR:

Krasnova, K.S.

TITLE:

The Calculation of the Stream of Heat and Humidity by a Nomo-

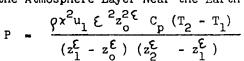
graph Method

PERIODICAL:

Uch. zap. Kirovskiy gos. ped. in-t, 1958, Nr 15, pp 105 - 113

ABSTRACT:

Nomographs for the calculation of the vertical streams of heat and humidity in the layer of the atmosphere near the Earth's surface are plotted using D.L. Laykhtman's formulae ("Physics of the Atmosphere Layer Near the Earth's Surface", GITTL, 1949):



$$E = \frac{\rho x^{2} u_{1} \in {}^{2} z_{0}^{2\epsilon} \quad (q_{2} - q_{1})}{(z_{1}^{\epsilon} - z_{0}^{\epsilon}) \quad (z_{2}^{\epsilon} - z_{1}^{\epsilon})}$$

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sov/169-59-4-3742

The Calculation of the Stream of Heat and Humidity by a Nomograph Method

wherein P is the stream of heat, E is the stream of humidity, \mathcal{E} is a parameter characterizing the steadiness, \mathbf{z}_0 is the roughness, $\boldsymbol{\rho}$ is the air density, \mathbf{C}_0 is the thermal capacity of the air, $\mathbf{T}_2 - \mathbf{T}_1$ and $\mathbf{q}_2 - \mathbf{q}_1$ are the differences in temperature and in specific humidity of the air in respect to the heights \mathbf{z}_2 and \mathbf{z}_1 (it is assumed that $\mathbf{z}_1 = 0.5$ m and $\mathbf{z}_2 = 2$ m), $\boldsymbol{\chi}$ is connected with the Karman constant $\boldsymbol{\chi}_0$ by the formula

 $\chi = \frac{\lambda_0}{1 - 1}$

The nomograph plotted in the article on the basis of adjusted points for calculating P and E requires the superposition on four indices. This complicates the application of the nomograph. Therefore, a transparent nomograph is proposed in addition, which is less precise but more simple in use. Based on the comparison of the calculation results with the aid of the nomograph and by the formulae, the conclusion is drawn on the practically acceptable accuracy of the nomograph.

M.Ye. Berlyand

Card 2/2

1

KRASNOVA, Klara Stepanovna; TSEYTIN, G.Kh., otv. red; IASKOGORODSKAYA,

M.M., red.; SOLOVEYCHIK, A.A., tekan. red.; BRAYNINA, M.I., tekhn.

red.

[Atlas of meteorological nomograms] Atlas meteorologicheskikh nomogram. Leningrad, Gidrometeor.izd-vo, 1961. 42 p. (MIRA 14:12)

(Meteorology—Tables, etc.)